Translation



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## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference DF4316/PCT                            | FOR FURTHER ACTION                                                                                | SeeNotification<br>Examination R | nofTransmittalofInternational Preliminary eport (Form PCT/IPEA/416)            |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------|
| International application No. PCT/JP98/05236                                | International filing date (day/m<br>20 November 1998 (20                                          | · · · ·                          | Priority date (day/month/year)  22 December 1997 (22.12.97)                    |
| International Patent Classification (IPC) or n<br>A23L 1/236                | <u> </u>                                                                                          |                                  |                                                                                |
| Applicant                                                                   | AJINOMOTO CO.,                                                                                    | INC.                             |                                                                                |
|                                                                             |                                                                                                   |                                  |                                                                                |
| This international preliminary exami and is transmitted to the applicant ac | nation report has been prepared cording to Article 36.                                            | by this Internation              | onal Preliminary Examining Authority                                           |
| 2. This REPORT consists of a total of                                       | 3 sheets, including                                                                               | g this cover shee                | et.                                                                            |
| amended and are the basis for                                               | ed by ANNEXES, i.e., sheets of this report and/or sheets contain Administrative Instructions unde | ing rectification                | claims and/or drawings which have been ns made before this Authority (see Rule |
| These annexes consist of a tot                                              | al of sheets.                                                                                     |                                  |                                                                                |
| 3. This report contains indications relati                                  | ing to the following items:                                                                       |                                  |                                                                                |
| Basis of the report                                                         |                                                                                                   |                                  |                                                                                |
| II Priority                                                                 |                                                                                                   |                                  | Τ(                                                                             |
| III Non-establishment of                                                    | f opinion with regard to novelty,                                                                 | inventive step a                 |                                                                                |
| IV Lack of unity of inve                                                    |                                                                                                   |                                  | (00)<br>(00)                                                                   |
| V Reasoned statement to citations and explana                               | inder Article 35(2) with regard to<br>tions supporting such statement                             | o novelty, inven                 | tive step or industrial applicability                                          |
| VI Certain documents ci                                                     | ted                                                                                               |                                  | ZEDI<br>ZEDI                                                                   |
| VII Certain defects in the                                                  | international application                                                                         |                                  | X .                                                                            |
| VIII Certain observations                                                   | on the international application                                                                  |                                  |                                                                                |
|                                                                             |                                                                                                   | ·· <del>-</del>                  |                                                                                |
| Date of submission of the demand                                            | Date of c                                                                                         | ompletion of th                  | is report                                                                      |
| 16 June 1999 (16.06.9                                                       | 19)                                                                                               | 10 Mar                           | ch 2000 (10.03.2000)                                                           |
| Name and mailing address of the IPEA/JP                                     | Authoriz                                                                                          | ed officer                       |                                                                                |
| Facsimile No.                                                               | Telephor                                                                                          | e No.                            |                                                                                |

International application No.

PCT/JP98/05236

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

| I. I | Basis (       | of the re                                    | port                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
|------|---------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1.   | With          | regard to                                    | the elements of the international application:*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
|      | $\boxtimes$   | the inte                                     | rmational application as originally filed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |
|      |               | the desc                                     | cription:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |
|      |               | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | , as originally filed                            |
|      |               | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | filed with the demand                            |
|      |               | pages                                        | , filed with the letter of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
|      |               | the clai                                     | ims:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |
|      | _             | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | , as originally filed                            |
|      |               | pages                                        | , as amended (together with any state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ment under Article 19                            |
|      |               | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | filed with the demand                            |
|      |               | pages                                        | , filed with the letter of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
|      |               | the drav                                     | wings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |
|      | ىي            | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | , as originally filed                            |
|      |               | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | filed with the demand                            |
|      |               | pages                                        | , filed with the letter of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
|      | <b>П</b> ,    | he seque                                     | ence listing part of the description:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
|      | ш,            | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | as originally filed                              |
|      |               | pages                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
|      |               | pages                                        | , filed with the letter of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |
| 2.   | the in        | nternation<br>e elemen<br>the lan<br>the lan | to the language, all the elements marked above were available or furnished to this Authority in the nal application was filed, unless otherwise indicated under this item. It is were available or furnished to this Authority in the following language of a translation furnished for the purposes of international search (under Rule 23.1(b)). Inguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary examination (3). | which is:                                        |
| 3.   | With<br>preli | regard<br>minary e                           | to any nucleotide and/or amino acid sequence disclosed in the international applicat examination was carried out on the basis of the sequence listing:                                                                                                                                                                                                                                                                                                                                                                               | ion, the international                           |
|      |               | contair                                      | ned in the international application in written form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
|      |               | filed to                                     | ogether with the international application in computer readable form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
|      |               | furnish                                      | ned subsequently to this Authority in written form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |
|      |               |                                              | ned subsequently to this Authority in computer readable form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |
|      |               | interna                                      | tatement that the subsequently furnished written sequence listing does not go beyond ational application as filed has been furnished.                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |
|      |               |                                              | tatement that the information recorded in computer readable form is identical to the written<br>furnished.                                                                                                                                                                                                                                                                                                                                                                                                                           | n sequence listing has                           |
| 4.   |               | The an                                       | mendments have resulted in the cancellation of:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |
|      |               |                                              | the description, pages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |
|      |               |                                              | the claims, Nos.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |
|      |               |                                              | the drawings, sheets/fig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |
| 5.   |               | This rebeyond                                | port has been established as if (some of) the amendments had not been made, since they have the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**                                                                                                                                                                                                                                                                                                                                                          | been considered to go                            |
| *    | in th         | acement<br>is repor<br>70.17).               | sheets which have been furnished to the receiving Office in response to an invitation under Art<br>t as "originally filed" and are not annexed to this report since they do not contain am                                                                                                                                                                                                                                                                                                                                           | ticle 14 are referred to<br>endments (Rule 70.16 |
| **   |               | •                                            | ent sheet containing such amendments must be referred to under item 1 and annexed to this rep                                                                                                                                                                                                                                                                                                                                                                                                                                        | ort.                                             |

International application No.

PCT/JP98/05236

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| 1. Statement                  |        |     |     |
|-------------------------------|--------|-----|-----|
| Novelty (N)                   | Claims | 1-3 | YES |
|                               | Claims |     | NO  |
| Inventive step (IS)           | Claims | 1-3 | YES |
|                               | Claims |     | NO  |
| Industrial applicability (IA) | Claims | 1-3 | YES |
|                               | Claims |     | NO  |
|                               |        |     |     |

2. Citations and explanations

The inventions described in claims 1 through 3 are not described in the documents cited in the ISR nor in the documents considered relevant to the inventions; furthermore, a party skilled in the art could not easily conceive of them from a combination of the descriptions in these documents.

## PAIENT COOPERATION TREAT

## From the INTERNATIONAL BUREAU **PCT NOTIFICATION OF ELECTION** United States Patent and Trademark Office (Box PCT) (PCT Rule 61.2) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE Date of mailing (day/month/year) in its capacity as elected Office 15 July 1999 (15.07.99) International application No. Applicant's or agent's file reference PCT/JP98/05236 **DF4316/PCT** International filing date (day/month/year) Priority date (day/month/year) 20 November 1998 (20.11.98) 22 December 1997 (22.12.97) ISHIDA, Hirotoshi et al The designated Office is hereby notified of its election made: X in the demand filed with the International Preliminary Examining Authority on: 16 June 1999 (16.06.99) in a notice effecting later election filed with the International Bureau on: The election made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland **Authorized officer** 

Sean Taylor

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

## **PCT**

## NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

SHIMOKOSHI, Masao Taka-ai Building 9th floor 15-2, Nihombashi 3-chome Chuo-ku Tokyo 103-0027 JAPON



| IMPORTANT MOTIFICATION                              |
|-----------------------------------------------------|
| IMPORTANT NOTIFICATION                              |
| filing date (day/month/year) rember 1998 (20.11.98) |
| (day/month/year)<br>ember 1997 (22.12.97)           |
|                                                     |

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the
  International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise
  indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority
  document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date
Priority application No.
Country or regional Office of priority document

22 Dece 1997 (22.12.97)
Priority application No.
Sountry or regional Office of priority document

24 Dece 1997 (22.12.97)
Priority application No.
Sountry or regional Office of priority document

25 Date of receipt of priority document

26 Date of receipt of priority document

27 Dece 1998 (04.12.98)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

M. Sakai

Telephone No. (41-22) 338.83.38

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Facsimile No. (41-22) 740.14.35

## **PCT**

# NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

#### From the INTERNATIONAL BUREAU

To:

SHIMOKOSHI, Masao Taka-ai Building 9th floor 15-2, Nihombashi 3-chome Chuo-ku Tokyo 103-0027 JAPON



Date of mailing (day/month/year)

01 July 1999 (01.07.99)

Applicant's or agent's file reference

DF4316/PCT

IMPORTANT NOTICE

International application No.

PCT/JP98/05236

International filing date (day/month/year) 20 November 1998 (20.11.98)

Priority date (day/month/year)

22 December 1997 (22.12.97)

**Applicant** 

AJINOMOTO CO., INC. et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: CN,EP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

BR.CA.CZ.HU.MX.RU.SK

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 01 July 1999 (01.07.99) under No. WO 99/31999

## REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

## REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the **national phase**, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP98/05236

| A CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>6</sup> A23L1/236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| According to International Patent Classification (IPC) or to both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | national classification and IPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| B. FIELDS SEARCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Minimum documentation searched (classification system follow Int.Cl <sup>6</sup> A23L1/22-1/237, A23L1/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ed by classification symbols)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Documentation searched other than minimum documentation to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | the extent that such documents are included in the fields searched                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Electronic data base consulted during the international search (n. JICST File (JOIS), WPI (DIALOG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ame of data base and, where practicable, search terms used)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Category* Citation of document, with indication, where a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | , -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| A JP, 1-211468, A (Rainaa Bir<br>24 August, 1989 (24. 08. 89<br>& FI, 94210, B & ZA, 88090                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| A JP, 4-346769, A (Ajinomoto 2 December, 1992 (02. 12. 92 & EP, 514937, A1 & US, 547                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Further documents are listed in the continuation of Box C.  * Special categories of cited documents:  A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search 16 February, 1999 (16.02.99) | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family  Date of mailing of the international search report  23 February, 1999 (23. 02. 99) |
| Name and mailing address of the ISA/<br>Japanese Patent Office                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Authorized officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Facsimile No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Telephone No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

WIV

#### 特許協力条約

PCT

#### 国際予備審査報告

(法第12条、法施行規則第56条) [PCT36条及びPCT規則70]

| REC'D | 24 | MARS | 2000 |
|-------|----|------|------|
| WIEN  |    |      | PC   |

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| 出願人又は代理人<br>の書類記号 DF4316/PCT                                                                                      | 今後の手続きについ<br>                        | いては、国際予備審査報<br>【PEA/4 )                   | 限告の送付通知(樹<br>1 6)を参照するこ        |           |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|--------------------------------|-----------|
| 国際出願番号 PCT/JP98/05236                                                                                             | 国際出願日<br>(日.月.年) 2(                  | 0. 11. 98                                 | 優先日<br>(日.月.年) <sup>2</sup>    | 22.12.97  |
| 国際特許分類 (IPC)<br>Int.Cl <sup>7</sup> A23L 1/2                                                                      | 36                                   |                                           |                                |           |
| 出願人 (氏名又は名称)<br>・ 味の素株式会社                                                                                         |                                      |                                           |                                |           |
| 1. 国際予備審査機関が作成したこの日<br>2. この国際予備審査報告は、この表系<br>この国際予備審査報告には、日<br>査機関に対してした訂正を含む<br>(PCT規則70.16及びPCT<br>この附属書類は、全部で | 氏を含めて全部で<br>付属書類、つまり補□<br>♂明細書、請求の範値 | 3 ペー:<br>Eされて、この報告の<br>囲及び/又は図面も添ん<br>参照) | <sup>どからなる。</sup><br>を破とされた及び/ |           |
| 3. この国際予備審査報告は、次の内2<br>I × 国際予備審査報告の基礎                                                                            |                                      |                                           |                                | ·         |
| Ⅲ                                                                                                                 | 上の利用可能性につ                            | いての国際予備審査報                                | 告の不作成                          |           |
| V ⋈ PCT35条(2)に規定での文献及び説明<br>VI ある種の引用文献                                                                           | ドる新規性、進歩性 X                          | 又は産業上の利用可能性                               | 生についての見解、                      | それを裏付けるため |
| VII 国際出願の不備 VII 国際出願に対する意見                                                                                        |                                      |                                           |                                |           |
|                                                                                                                   |                                      |                                           |                                | <u> </u>  |
| 国際予備審査の請求書を受理した日 16.06.99                                                                                         |                                      | 国際予備審査報告を作                                | 作成した日<br>). 03.00              |           |

特許庁審査官(権限のある職員)

小暮 道明

電話番号 03-3581-1101 内線

日本国特許庁 (IPEA/JP)

郵便番号100-8915 東京都千代田区霞が関三丁目4番3号

名称及びあて先

## 国際予備審査報告

国際出願番号 PCT/JP98/05236

|                      |                                  |                      | <del> </del>   |                                    |
|----------------------|----------------------------------|----------------------|----------------|------------------------------------|
| I. 国際予備審査報           | 最告の基礎                            |                      |                |                                    |
| 1                    | 子査報告は下記の出願書類にま<br>工提出された差し替え用紙は、 |                      |                | 「14条)の規定に基づく命令に<br>に報告書には添付しない。    |
| PCT規則70.             | 16, 70. 17)                      |                      |                |                                    |
| 区 出願時の国際             | <b>聚出願書類</b>                     |                      |                |                                    |
| 明細書                  | 第                                | _ ページ、               | 出願時に提出されたもの    |                                    |
| 明細書                  | 第<br>第                           | ーページ、<br>ページ、        | 国際予備審査の請求書と    |                                    |
| 明細書                  | 第                                | ーページ、<br>ーページ、       |                | 付の書簡と共に提出されたもの                     |
| 請求の範囲                | 第                                | 項、                   | 出願時に提出されたもの    |                                    |
| 請求の範囲                | 第                                | <br>項、               | PCT19条の規定に基    |                                    |
| 請求の範囲                | 第                                | 項、                   | 国際予備審査の請求書と    |                                    |
| 請求の範囲                | 第                                | 項、<br>               |                | 付の書簡と共に提出されたもの                     |
| □ 図面                 | 第                                | ページ/図、               | 出願時に提出されたもℓ    |                                    |
| 図面                   | 第                                | ページ/図、               | 国際予備審査の請求書と    | 生共に提出されたもの                         |
| 図面                   | 第                                | ペーシ/図、               |                | 付の書簡と共に提出されたもの                     |
|                      | 表の部分 第                           | ページ、                 | 出願時に提出されたも€    |                                    |
|                      | 表の部分 第                           | <br>_~ページ、           | 国際予備審査の請求書と    |                                    |
| 明細書の配列<br>           | 表の部分 第                           | <br>ページ、             |                | 付の書簡と共に提出されたもの                     |
| <br>  2. 上記の出願書類<br> | 質の言語は、下記に示す場合を                   | と除くほか、この             | の国際出願の言語である。   |                                    |
| 上記の書類は、              | 下記の言語である                         | 語である                 | る。             |                                    |
|                      |                                  |                      | - •            |                                    |
| 国際調査 国際調査            | のために提出されたPCT規                    | 則23.1(b)にい           | う翻訳文の言語        |                                    |
| ☐ PCT規               | 則48.3(b)にいう国際公開の言                | 語                    |                |                                    |
| 国際予備:                | 審査のために提出されたPC                    | <b>工規則55.2また</b>     | ・は55.3にいう翻訳文の章 | <b>雲</b>                           |
|                      |                                  | 1 //6/(1001 2 04 / 0 |                | ш                                  |
| 3. この国際出願は           | は、ヌクレオチド又はアミノ酢                   | 後配列を含んで:             | おり、次の配列表に基づき   | 国際予備審査報告を行った。                      |
| □ この国際               | 出願に含まれる書面による配                    | 列表                   |                |                                    |
|                      | 出願と共に提出されたフレキ                    |                      | による配列表         |                                    |
|                      | 山原と共に促出されたシャイ<br>、この国際予備審査(または   |                      |                | <b>=</b>                           |
|                      |                                  |                      |                |                                    |
|                      | 、この国際予備審査(または                    |                      |                |                                    |
| 出願後に                 |                                  | 出願時における              | 国際出願の開示の範囲を    | 超える事項を含まない旨の陳述                     |
|                      |                                  | レキシブルディ              | スクによる配列表に記録    | した配列が同一である旨の陳述                     |
| 書の提出                 | があった。                            |                      |                |                                    |
|                      | 記の書類が削除された。                      |                      |                |                                    |
| 明細書                  | 第                                |                      |                |                                    |
| 請求の範囲                | 第                                |                      |                |                                    |
| 図面                   | 図面の第                             | ^-                   | ジ/図            |                                    |
| れるので、そ               |                                  | して作成した。              | (PCT規則70.2(c)  | 道囲を越えてされたものと認めら<br>この補正を含む差し替え用紙は上 |
|                      |                                  |                      |                |                                    |
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## 国際予備審查報告

| 四所 1 佣 任 五                                         |                       | 国际山願番号 PCT/JP98/            | 05236         |
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| <ul><li>新規性、進歩性又は産業上の利用可能<br/>文献及び説明</li></ul>     | 性についての法第12条           | (PCT35条(2)) に定める見解、         | それを裏付ける       |
| . 見解                                               |                       |                             |               |
| 新規性(N)                                             | 請求の範囲                 | 1-3                         | 有             |
|                                                    | 請求の範囲 _               |                             | 無             |
| 進歩性(IS)                                            | 請求の範囲 _<br>請求の範囲 _    | 1-3                         |               |
| 産業上の利用可能性 (IA)                                     | 請求の範囲                 | 1 - 3                       | 有             |
|                                                    | 請求の範囲                 |                             | <del></del> 無 |
| 文献及び説明(PCT規則70.7)                                  |                       |                             | 7             |
|                                                    |                       |                             |               |
| 請求の範囲 1-3 に記載さ                                     | れた発明は国際調              | 査報告に表示された文献]                | 及び当該発         |
| 請求の範囲 1-3 に記載さ<br>月に関連があると認められる文<br>且み合わせることにより当業者 | ・献に記載されてお<br>にとって容易に発 | らず、かつ、それらの文献<br>明できたものでもない。 | 状の記載を         |
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P.B.5818 – Patentiaan 2 2280 HV Rijswijk (ZH) 3: +31 70 340 2040 TX 31651 epo nl FAX +31 70 340 3016 Europäisches Patentamt

Zweigstelle In Den Haag Recherchenabteilung European Patent Office

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Strehl Schübel-Hopf & Partner Maximilianstrasse 54 80538 München ALLEMAGNE

Erhalten 09. APR 2001 Strent et al.

Ostum/Date 06.04.01

Zeichen/Ret /Ret

EPA-53392

Anmeldung Nr./Application No./Demande nº./Patent Nr./Patent No./Brevet nº.

98954771.6-2114-JP9805236

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above—mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





## SUPPLEMENTARY **EUROPEAN SEARCH REPORT**

Application Number

EP 98 95 4771

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

## PATENT COOPERATION TR. STY

## PCT

## **NOTIFICATION CONCERNING** SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

SHIMOKOSHI, Masao Taka-ai Building 9th floor 15-2, Nihombashi 3-chome Chuo-ku Tokyo 103-0027 JAPON



| 07 December 1998 (07.12.98)  Applicant's or agent's file reference  DF4316/PCT | IMPORTANT NOTIFICATION                                                 |  |  |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------|--|--|
| International application No. PCT/JP98/05236                                   | International filing date (day/month/year) 20 November 1998 (20.11.98) |  |  |
| International publication date (day/month/year)  Not yet published             | Priority date (day/month/year)  22 December 1997 (22.12.97)            |  |  |

AJINOMOTO CO., INC. et al

Date of mailing (day/month/year)

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Country or regional Office Date of receipt **Priority date** Priority application No. or PCT receiving Office of priority document JP 04 Dece 1998 (04.12.98) 22 Dece 1997 (22.12.97) 9/352728

> The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

M. Sakai

Telephone No. (41-22) 338.83.38

Facsimile No. (41-22) 740.14.35

## PATENT COOPERATION TRLATY



## **PCT**

# NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

#### From the INTERNATIONAL BUREAU

To:

SHIMOKOSHI, Masao Taka-ai Building 9th floor 15-2, Nihombashi 3-chome Chuo-ku Tokyo 103-0027 JAPON



**Date of mailing** (day/month/year) 01 July 1999 (01.07.99)

Applicant's or agent's file reference

DF4316/PCT

**IMPORTANT NOTICE** 

International application No. PCT/JP98/05236

International filing date (day/month/year) 20 November 1998 (20.11.98)

Priority date (day/month/year)

22 December 1997 (22.12.97)

**Applicant** 

AJINOMOTO CO., INC. et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: CN.EP.KR.US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time: BR,CA,CŽ,HU,MX,RU,SK

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 01 July 1999 (01.07.99) under No. WO 99/31999

### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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Telephone No. (41-22) 338.83.38

# INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (July 1992)

International application No. PCT/JP98/05236

| A CLAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SSIFICATION OF SUBJECT MATTER .Cl <sup>6</sup> A23L1/236                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | to International Patent Classification (IPC) or to both                                                      | national classification ar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | nd IPC              |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DS SEARCHED                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                          |
| Minimum<br>Int                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | documentation searched (classification system follows .C1 <sup>6</sup> A23L1/22-1/237, A23L1/24              | ed by classification symb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ols)                |                          |
| Documenta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ation scarched other than minimum documentation to                                                           | the extent that such docu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ments are include   | d in the fields searched |
| Electronic d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | data base consulted during the international search (n<br>ST File (JOIS), WPI (DIALOG)                       | amc of data base and, wh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ere practicable, se | earch terms used)        |
| C. DOCU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MENTS CONSIDERED TO BE RELEVANT                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                          |
| Category*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Citation of document, with indication, where a                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | nt passages         | Relevant to claim No.    |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | JP, 1-211468, A (Rainaa Bir<br>24 August, 1989 (24. 08. 89<br>& FI, 94210, B & ZA, 88090                     | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     | 1-3                      |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | JP, 4-346769, A (Ajinomoto Co., Inc.),<br>2 December, 1992 (02. 12. 92)<br>& EP, 514937, A1 & US, 5473097, A |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1-3                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | r documents are listed in the continuation of Box C.                                                         | See patent family                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | / annex.            |                          |
| Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search 16 February, 1999 (16.02.99) |                                                                                                              | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family  Date of mailing of the international search report  23 February, 1999 (23. 02. 99) |                     |                          |
| Japar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ailing address of the ISA/<br>nese Patent Office                                                             | Authorized officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                          |
| acsimile No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ).                                                                                                           | Telephone No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | Į                        |

PCT



(法8条、法施行規則第40、41条) [PCT18条、PCT規則43、44]

| 出願人又は代理人<br>の書類記号 DF4316/PCT                                                              | 今後の手続きについては                                                                                 | 、国際調査報告<br>及び下記58  | 告の送付通知様:<br>を参照すること。 | 式(PCT/ISA/220)                    |  |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|----------------------|-----------------------------------|--|
| 国際出願番号 PCT/JP98/05236                                                                     | 国際出願日<br>(日.月.年) 20.1                                                                       | 1. 98              | 優先日<br>(日.月.年)       | 22.12.97                          |  |
| 出願人 (氏名又は名称)<br>味の素株式会社                                                                   | £ .                                                                                         |                    |                      |                                   |  |
| 国際調査機関が作成したこの国際調査 この写しは国際事務局にも送付される                                                       | <br>監報告を法施行規則第41条<br>5。                                                                     | (PCT18\$           | 条) の規定に従い            | ハ出願人に送付する。                        |  |
| この国際調査報告は、全部で 2                                                                           | ページである。                                                                                     |                    |                      |                                   |  |
| この調査報告に引用された先行も                                                                           | を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を<br>を | ている。               |                      |                                   |  |
| 1. 国際調査報告の基礎<br>a. 言語は、下記に示す場合を除く<br>この国際調査機関に提出さ                                         | ほか、この国際出願がさ<br>れた国際出願の翻訳文に基                                                                 | れたものに基っ<br>よづき国際調査 | うき国際調査を行<br>を行った。    | <b>すった。</b>                       |  |
| b. この国際出願は、ヌクレオチト                                                                         | 面による配列表                                                                                     |                    | 2列表に基づき              | 国際調査を行った。                         |  |
| □ この国際出願と共に提出されたフレキシブルディスクによる配列表<br>□ 出願後に、この国際調査機関に提出された書面による配列表                         |                                                                                             |                    |                      |                                   |  |
| □ 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表 □ 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述 |                                                                                             |                    |                      |                                   |  |
| ■ ●の佐出かあった。                                                                               |                                                                                             |                    |                      |                                   |  |
| 書面による配列表に記載し7<br>書の提出があった。                                                                | <b>と配列とフレキシブルディ</b>                                                                         | スクによる配             | 列表に記録した              | 配列が同一である旨の陳述                      |  |
| 2. 請求の範囲の一部の調査が                                                                           | 「できない(第1欄参照)。                                                                               |                    |                      |                                   |  |
| 3. 登明の単一性が欠如してい                                                                           | る(第Ⅱ欄参照)。                                                                                   |                    |                      |                                   |  |
| 4. 発明の名称は 🗵 出願                                                                            | i人が提出したものを承認。                                                                               | する。                |                      |                                   |  |
| □次に                                                                                       | .示すように国際調査機関#                                                                               | が作成した。             |                      |                                   |  |
|                                                                                           |                                                                                             |                    |                      |                                   |  |
| <u> </u>                                                                                  | 人が提出したものを承認す                                                                                |                    |                      |                                   |  |
| 国際                                                                                        | 欄に示されているように、<br>調査機関が作成した。出際<br>際調査機関に意見を提出す                                                | 頂人は、この国            | 際調査報告の発              | !則38.2(b)) の規定により<br>送の日から1カ月以内にこ |  |
| 6. 要約書とともに公表される図は、<br>第図とする。                                                              | 人が示したとおりである                                                                                 |                    | · ·                  |                                   |  |
|                                                                                           | 人は図を示さなかった。                                                                                 |                    |                      |                                   |  |
| 本図                                                                                        | は発明の特徴を一層よく表                                                                                | <b>きしている。</b>      | ·                    |                                   |  |
|                                                                                           |                                                                                             |                    |                      |                                   |  |

| [                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |                       |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------|
|                        | 属する分野の分類(国際特許分類 (IPC))<br>23L <sub>1</sub> /236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |                       |
| B. 調査を                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                     |                       |
| 調査を行った                 | 最小限資料(国際特許分類 (IPC))<br>3L 1/22-1/237, A23L 1/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.4                                                   |                       |
| Inc. of A2             | 3L 1/22-1/237, A23L 1/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 4                                                   |                       |
| E t 70 Verdel ou       | Al - We let - The let - Th |                                                       |                       |
| 取小收資科以                 | 外の資料で調査を行った分野に含まれるもの                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                       |
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| 国際調査で使                 | 用した電子データベース(データベースの名称<br>ファイル(JOIS),WPI(DIALOG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 、調査に使用した用語)                                           |                       |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |                       |
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| <u>C.</u> 関連す<br>引用文献の | ると認められる文献                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       | BB(± )-               |
| カテゴリー*                 | 引用文献名 及び一部の箇所が関連する                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                       | 関連する<br>請求の範囲の番号      |
| A                      | JP, 1-211468, A (ライナー・ヴイル)<br>& FI, 94210, B & ZA, 8809000, A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ト)24.8月.1989(24.08.89)                                | 1 – 3                 |
| A                      | JP, 4-346769, A(味の素株式会社)2<br>& EP, 514937, A1 & US, 5473097, A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | . 12月. 1992 (02. 12. 92)                              | 1 – 3                 |
|                        | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       |                       |
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| □ C欄の続き                | きにも文献が列挙されている。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | □ パテントファミリーに関する別                                      | 紙を参照。                 |
| もの                     | 車のある文献ではなく、一般的技術水準を示す                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | の日の後に公表された文献<br>「T」国際出願日又は優先日後に公表さ<br>て出願と矛盾するものではなく、 | された文献であって<br>発明の原理又け理 |
| 「E」国際出願<br>以後に公        | 頭目前の出願または特許であるが、国際出願日<br>公表されたもの                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 論の理解のために引用するもの「X」特に関連のある文献であって、当                      |                       |
| 「L」優先権i                | E張に疑義を提起する文献又は他の文献の発行<br>は他の特別な理由を確立するために引用する                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | の新規性又は進歩性がないと考え                                       | こられるもの                |
| 文献(玛                   | 理由を付す)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 「Y」特に関連のある文献であって、当<br>上の文献との、当業者にとって自                 | 明である組合せに              |
| 「P」国際出願                | る開示、使用、展示等に言及する文献<br>百日前で、かつ優先権の主張の基礎となる出願                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | よって進歩性がないと考えられる<br>「&」同一パテントファミリー文献                   | らもの                   |
| 国際調査を完了                | でした日<br>16.02.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 国際調査報告の発送日 23.02                                      | .99                   |
|                        | )名称及びあて先<br>  ###                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 特許庁審査官(権限のある職員)                                       | 4B 9358               |
| 垂                      | 特許庁(ISA/JP)<br> 『便番号100-8915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 小幕道明                                                  | )                     |
| 東京都                    | 『千代田区霞が関三丁目4番3号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 電話番号 03-3581-1101                                     | 内组 3 / / 0            |